DT19 Rec'd PCT/PTO 15 OCT 2002

**PATENT** 



**DOCKET NO.: BTGI-0003/142418** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Peter Meyer, et al.

Serial No.: 10/088,4330 Group Art Unit: Not Yet Assigned

Filing Date: August 13, 2002 Examiner: Not Yet Assigned

For: TARGETED GENE REMOVAL

DATE OF DEPOSIT: October 9, 2002

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231.

Wakethin

TYPED NAME: Michael P. Straher REGISTRATION NO.: 38,325

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

DOCKET N	O.: BT	GI-0003/142418	3 -	. 2 -			PATENT
	In acc	ordance with §	1.129(a),	this Inform	nation Disclo	sure Stater	nent is being
	filed i	in connection v	with Dt	he first or	□second A	fter Final	Submission,
	therefo	ore:					
		Certification in	n Accord	ance with §	1.97(e) is atta	ached; or	
		The fee of <b>\$18</b>	8 <u>0.00</u> as s	et forth in	§1.17(p) is att	ached.	
	In acco	ordance with §1.	.97(c), thi	is Informati	on Disclosure	Statement	is being filed
	after th	ne period set for	th in §1.	97(b) above	e but before th	ne mailing	date of either
	a Final	Action under §	1.113 or	a Notice of	Allowance ur	der §1.311	, or before an
	action	that otherwise of	closes pro	osecution in	the applicati	on, therefo	re:
		□ Certific	cation in	Accordanc	e with §1.97(	e) is attach	ed; or
		☐ The fee	e of <u>\$180</u>	.00 as set f	orth in §1.17(	p) is attach	led.
	In acco	ordance with §1.	97(d), th	is Informati	on Disclosure	Statement	is being filed
	after t	he mailing date	e of eithe	er a Final	Action under	§1.113 or	a Notice of
	Allow	ance under §1.3	11 but be	efore, or sin	nultaneously v	with, the pa	ayment of the
	Issue F	Fee, therefore in	cluded ar	e: Certifica	tion in Accord	lance with	§1.97(e); and
	the sul	omission fee of	<u>\$180.00</u>	as set forth	in §1.17(p).		
$\boxtimes$	Copies	s of each of the	e referen	ces listed o	on the attache	ed Form P	TO-1449 are
	enclos	ed herewith.					
	Copies	s of references lis	sted on th	e attached I	Form PTO-14	49 are enclo	sed herewith
	EXCE	PT THAT:					
		In view of the v	volumino	ous nature o	f references [l	ist as appr	opriate], and
		the likelihood	that these	e references	are available	to the Exa	miner, copies
		are not enclose	ed herewi	ith.			

DOCKET NO.: B7	GI-0003/142418	- 3 -		<b>PATENT</b>
	In accordance with	§1.98(d), copies of	the following reference	ces listed on
	the attached Form P	TO-1449 are not en	closed herewith becau	se they were
	previously cited by	or submitted to the	U.S. Patent and Trade	mark Office
	in patent applicat	ion(s) for which	a claim for priority	under 35
	U.S.C.§120 have be	een made in the ins	stant application:	
	Copies of reference	es [list as appropr	iate] listed on the atta	ached Form
	PTO-1449 were pr	reviously cited by	or submitted to the	Patent and
	Trademark Office i	n prior application	Serial No. , filed	•
	☐ If any of the	he foregoing publi	ications are not avail	able to the
	Examiner,	Applicant will en	deavor to supply co	pies at the
	Examiner's	request.		

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date: October 9, zoor

Michael P. Straher Registration No. 38,325

WOODCOCK WASHBURN LLP

One Liberty Place - 46th Floor

Philadelphia, PA 19103 Telephone: (215) 568-3100 Facsimile: (215) 568-3439

© 2001 WW

Form	PTO-1449 Modified	Docket No. BTGI-0003/142418	Serial No. 10/088,430	
1	f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Meyer, et al.		
	Department of Commerce at and Trademark Office	Filing Date August 13, 2002	Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Including Autho	r, Title, Date, Pertinent	Pages, Etc.)	
1	Dale, P.J. "Spread of engineered gen 13-15	es to wild relatives", Plan	t Physiol., <b>1992,</b> 100,	
2	Hoffman, T., et al. "Foreign DNA sequences are received by a wild-type strain of Aspergillus niger after co-culture with transgenic higher plants", Curr Genet, 1994, 27, 70-76			
3	Gressel, J. "Indiscriminate use of selectable markers-sowing wild oats?", <i>Tibtech</i> , <b>1992</b> , 10, 382			
4	Matzke, M.A. et al., "Differential inactivation and methylation of a transgene in plants by two suppressor loci containing homologous sequences", <i>Plant Mol. Biol.</i> , <b>1991</b> , 16, 821-830			
5	DeBlock, M. et al., "Two T-DNAs co-transformed into Brassica napus by a double Agrobacterium infection are mainly integrated at the same locus", Theor. Appl. Genet., 1991, 82, 257-263			
6	Yoder, J.I. et al., "Transformation systems for generating marker-free transgenic plants", <i>Bio/Technology</i> , <b>1994</b> , 12, 263-267			
7	Puchta, H. et al. "Somatic intrachromosomal homologous recombination events in population of plant siblings", <i>Plant Mol Biol.</i> , <b>1995</b> , 28, 281-292			
8	Konz, C. et al., "The promoter of Tl-DNA gene 5 controls the tissue-specific expression of chimeric genes carried by a novel type of <i>Agrobacterium</i> binary vector", <i>Mol. Gen. Genet.</i> , <b>1986</b> , 204, 383-396			
9	Depicker, A.G. et al., "A negative selection scheme for tobacco protoplast-derived cells expressing the T-DNA gene 2", <i>Plant Cell Reports</i> , <b>1988</b> , 7, 63-66			
10	Chalfie, M. et al., "Green fluorescent protein as a marker for gene expression", <i>Science</i> , <b>1994</b> , 263, 802-805			
EXAMINER		DATE CONSIDERED		

Form	PTO-1449 Modified	Docket No. BTGI-0003/142418	Serial No. 10/088,430	
]	f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Meyer, et al.		
	Department of Commerce at and Trademark Office	Filing Date August 13, 2002	Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Including Autho	r, Title, Date, Pertinent	Pages, Etc.)	
11	Velten, J. et al., "Isolation of a dual part Agrobacterium tumefaciens", EMBC	2	rom Ti plasmid of	
12	Koncz, C. et al., "Specialized vectors  Molecular Biology Manual B2, 1994		oression studies", Plant	
13	Horsch, R.B. et al., "A simple and general method for transferring genes into plants", <i>Science</i> , <b>1985</b> , 227, 1229-1231			
14	Dellaporta, S.J. et al., "A plant DNA minipreparation", <i>Plant Mol. Biol. Rep.</i> , <b>1983</b> , 1, 19-21			
15	Van Blokland, R. et al., "Developmental abnormalities associated with deoxyadenosine methylation in transgenic tobacco", <i>The Plant Journal</i> , <b>1998</b> , 15, 543-551			
16	Koes, R.E. et al., "The chalconesynthase multigene family of Petunia hybrida (V30): sequence homology, chromosomal localization and evolutionary aspects", <i>Plant Molecular Biology</i> , <b>1987</b> , 10, 159-169			
17	Gardner, J.F. et al., "Role of <i>Escherichia coli</i> IHF protein in lambda site- specific recombination", <i>J Mol Biol.</i> , , <b>1986</b> , 191, 181-189			
18	Yang, C. et al., "The interaction of E.coli IHF protein with its specific binding sites", Cell, 1989, 57, 869-880			
19	Craig, N.L. et al., "E.coli Integration Host Factor Binds to Specific Sites in DNA", Cell, 1984, 39, 707-716			
20	Weisberg, R.A. et al., "Site-specific recombination in phage lambda. In Lambda II, (eds. Hendrix, R.W., Roberts, J.W., Stahl, F.W. & Weisberg, R.A.) 1983, 211-250(Cold Spring Harbor, New York)			
EXAMINER	EXAMINER DATE CONSIDERED			

Form	PTO-1449 Modified	Docket No. BTGI-0003/142418	Serial No. 10/088,430	
(	f Patent and Publications Cited by Applicant everal sheets if necessary)	Applicant Peter Meyer, et al.		
•	Department of Commerce at and Trademark Office	Filing Date August 13, 2002	Group Not Yet Assigned	
ОТНЕ	CR DOCUMENTS (Including Author	r, Title, Date, Pertinent	Pages, Etc.)	
21	Galliano, H. et al., "The transformation derivative that binds to the nuclear so			
22	Urwin, .E. et al., "Engineered oryzac confers resistance to Globodera pallie			
23	Puchta, H. et al., "Substrate specificity of plant recombinases determined in extrachromosomal recombination systems in <i>Homologous recombination and gene silencing in plants</i> (ed Paszkowski, J) 123-155 (Kluwer Academic Publishers, Dortrecht, 1994)			
24	Ramanathan, B. et al., "Enhanced DNA repair synthesis in hyperacetylated nucleosomes", <i>J Biol Chem.</i> , <b>1989</b> , 264, 11026-11034			
25	Takano, M. et al., "The structures of integration sites in transgenic rice", <i>Plant J</i> , 1997, 11, 353-361			
26	Drlica, K. et al., "Histonelike proteins in bacteria", Microbiol. Reviews, 1987, 51, 301-319			
27	Peredelchuk, M.Y. et al., "A method for construction of E. coli strains with multiple DNA insertions in the chromosome", Gene: An International Journal on Genes and Genomes, 1997, 187(2), 231-238			
28	Zubko, E. et al., "Intrachromosomal recombination between attP regions as a tool to remove selectable marker genes from tobacco transgenes", <i>Nature Biotechnology</i> , <b>2000</b> , 18(4), 442-445			
;				
EXAMINER	<u> </u>	DATE CONSIDERED		

Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Docket No. BTGI-0003/142418	Serial N 10/088,4	
				Applicant Peter Meyer, et al.		
U.S. Department of Commerce Patent and Trademark Office			Filing Date August 13, 2002	Group Not Yet	Group Not Yet Assigned	
	-	U.	S. PATENT D	OCUMENTS	· •	
Examiner Initial		Document No.	Date	Name	Class Subclass	
·						,
		FORE	EIGN PATENT	T DOCUMENTS		
Examiner Initial		Document No.	Date	Country	Translation YES NO	
	29	WO 01/07572	02/01/01	PCT		
·						
EXAMINER .			DATE CONSIDERE	D		